

## **SYSTEM FOR MAINTAINING AN ACTIVE DATA LINK LAYER FOR ISDN CALL PROCESSING DURING A SOFTWARE RESET OPERATION**

### **Abstract**

The data link layer maintenance system executes in the Q.921 protocol  
5 server of the serving ISDN Access Node and maintains the data link layer active in  
the ISDN-based Terminal Equipment and the Q.921 protocol server of the serving  
ISDN Access Node during the execution of a software reset process. This is  
accomplished by the Q.921 protocol server of the serving ISDN Access Node  
software storing the data communications connection data in a persistent table that  
10 survives the software reset operation. A predetermined set of control signals is  
then exchanged between the Q.921 protocol server of the serving ISDN Access  
Node and the ISDN-based Terminal Equipment in response to the initiation of a  
software reset process to execute standard signaling processes of the LAP-D  
protocol to force the Terminal Equipment and the Q.921 protocol server of the  
15 serving ISDN Access Node into a predetermined stable state.